

# 2006 CSP Applicant Documentation of Existing and Planned Enhancements

## Spring Watershed

Please indicate which of the following practices and activities you are currently applying by indicating how many "units" (most are measured in acres) in the first column (under "Existing Units"). Identify any additional enhancement practices or activities you are planning to add to your Ag operation by indicating how many "units" in the second column (under "Planned Units"), and the year you plan to begin the practice or activity in the third column (under "Planned Year").

**Practices or activities highlighted in gray will require an initial assessment by NRCS to determine your existing level.** The Soil Tillage Intensity Rating (STIR) and the Soil Conditioning Index (SCI), an index that accounts for organic material returned to the soil, the effect of field operations on organic matter breakdown, and soil erosion processes. The Wildlife Habitat Appraisal Guide (WHAG) is an assessment of the wildlife habitat.

Existing		Planned			Enhancement Practice or Activity	Unit Type	Unit Cost
Units	Field Numbers	Units	Year	Field Numbers			
Energy Management Enhancements							
					EEM40 <b>Energy Audit</b>	EA	500.00
					EEM41 <b>Recycling of all used motor oil</b> for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors.	YR	200
					EEM45 Soil Tillage Intensity Rating ( <b>STIR</b> ) is less than 15	AC	0.90
					EEM45 Soil Tillage Intensity Rating ( <b>STIR</b> ) is less than 30	AC	0.70
					EEM45 Soil Tillage Intensity Rating ( <b>STIR</b> ) is less than 60	AC	0.50
					EEM42 Use of <b>perennial legumes in the crop rotation</b> to reduce enrgy need for production of nitrogen.	AC	0.70
					EEM43 Use of <b>annual legumes in the crop rotation</b> to reduce enrgy need for production of nitrogen.	AC	0.10
					EEM44 Use of <b>manure to supply at least 90% of nutrient needs</b> of plants.	AC	1.10
					EEM46 <b>Use of renewable energy fuel</b> (Biodiesel or Ethanol). Payments are made in \$25 increments for each 100 gallons <u>actual</u> biofuel used per year.	100 GAL	25.00
					EEM47 <b>Renewable energy generation</b> (solar, wind, water, geothermal, methane).	100 KWH	2.50
					EEM48 <b>10% energy reduction.</b>	BTU's	200.00
					EEM48 <b>20% energy reduction.</b>	BTU's	500.00
					EEM48 <b>5% energy reduction.</b>	BTU's	100.00

Soil Management Enhancements						
					ESM40 Improve soil conditioning and quality by implementing conservation measures that result in a <b>Soil Conditioning Index (SCI) score of at least 0.1</b> . (Enhancement payments are based on a 0.3 SCI increments; i.e., \$2.32 for a SCI of 0.1 to 0.3, \$5.80 for a SCI of 0.4 to 0.6, 9.28 for a SCI of 0.7 to 0.9. The 0.3 increment ranges continue to increase by \$3.48, culminating in a SCI of \$29.00 for a SCI of 2.5 or greater).	AC 2.32
					ESM41 Reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>between 16 and 30</b> .	AC 1.00
					ESM41 Reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>between 31 and 60</b> .	AC 0.50
					ESM41 Reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>of 15 or less</b> .	AC 2.00
					ESM42 Using <b>GPS or other similar</b> guided measure technology, reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>between 16 and 30</b> .	AC 2.00
					ESM42 Using <b>GPS or other similar</b> guided measure technology, reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>between 31 and 60</b> .	AC 1.00
					ESM42 Using <b>GPS or other similar</b> guided measure technology, reduce soil compaction by <b>controlling areas of traffic</b> that result in a Soil Tillage Intensity Rating ( <b>STIR</b> ) <b>of 15 or less</b> .	AC 4.00
Water Management Enhancements						
					W1. Irrigation Enhancement Index Level 1 - 60 - 64%.	AC 2.00
					W2. Irrigation Enhancement Index Level 2 - 65 - 69%.	AC 4.00
					W3. Irrigation Enhancement Index Level 3 - 70 - 74%.	AC 6.00
					W4. Irrigation Enhancement Index Level 4 - 75 - 79%.	AC 8.00
					W5. Irrigation Enhancement Index Level 5 - 80 - 84%.	AC 10.00
					W6. Irrigation Enhancement Index Level 6 - 85% or greater.	AC 12.00

Grazing Management Enhancements							
					EGM02 <b>Grazing Management Bundle:</b> Choose <b>one</b> of the following activities. Choices include: 1) Maintain grazing records, utilize monitoring tools, rotate feeding and sacrifice areas annually 2) Distribute grazing by managing watering systems to provide adequate livestock water within a maximum distance of 800' from fields to water in at least 80% of the pastures. 3) Manage interseeded non-native legumes, native legumes and /or forbs on at least 50% of the grazing acres. Maintain a 30% legume component. 4) Multi-species grazing using cattle with goats or sheep. Payment made on all offered grazing acres.	AC	5.00
					EGM10 <b>Grazing Management Bundle:</b> Choose <b>two</b> of the grazing activities.	AC	10.00
					EGM09 <b>Grazing Management Bundle:</b> Choose <b>three</b> of the grazing activities.	AC	15.00
					EGM07 <b>Grazing Management Bundle:</b> Choose <b>four</b> of the grazing activities.	AC	15.00
					EGM05 <b>Maintain a grazing system with at a minimum of 4 pastures (per herd).</b> Minimum grazing heights are maintained. During growing season, maximum grazing period per field is 8 to 15 days.	AC	5.00
					EGM05 <b>Maintain a grazing system with at a minimum of 8 pastures (per herd).</b> Minimum grazing heights are maintained. During growing season, maximum grazing period per field is 4 to 7 days.	AC	10.00
					EGM05 <b>Maintain a grazing system with at a minimum of 16 pastures (per herd).</b> Minimum grazing heights are maintained. During growing season, maximum grazing period per field is 1 to 4 days. Acres that are stripgrazed during the spring thru fall growing season should be included in this enhancement.	AC	15.00
					EGM11 <b>Stockpile/ Strip graze tall fescue for winter feed</b> for better distribution of manure through the grazing animal, decrease impact of grazing animal on hay feeding areas (thus decreasing manure/nutrient concentrations and maintaining ground cover), and reducing fuel and energy costs associated with making and feeding hay.	AC	15.00
					EGM15 <b>Management of Warm Season Grasses for summer pasture</b> to extend the grazing season, improve plant diversity, decrease the grazing animal impact on dormant cool season grasses in the summer time (thus maintaining better ground cover), offset toxic effects of endophyte infected fescue, and reduce fuel and energy costs associated with feeding hay in the summer time when cool season grass pasture is dormant.	AC	20.00

					EGM06 <b>Annually collect fecal samples and utilize the Nutritional Balance Analyzer (NUTBAL)</b> computerized assessment tool to analyze and evaluate forage quality.	YR	300.00
					EGM04 <b>Locate supplemental feeding/loafing/sacrifice areas more than 300 feet from riparian areas and/or wetlands</b> to reduce potential runoff.	AC	2.00
					EGM05 Improve plant health and soil quality through <b>reduced animal wintertime pasture confinement to four months or less.</b>	AC	1.00
<b>Nutrient Management Enhancements</b>							
					ENM01 <b>Use controlled-release nitrogen products</b> (e.g. polymer coating) to more effectively match crop needs to nitrogen availability.	AC	3.00
					ENM13 <b>Reapportion nitrogen inputs by using split applications</b> (including sidedress applications of nitrogen) to more effectively match crop needs to nitrogen availability.	AC	5.00
					ENM14 <b>Eliminate animal manure/litter application on soils with very high or excessive soil test P levels.</b> Direct animal manure/litter application to soils with low or very low P soil test to reduce environmental risks from excessive P build-up in the soil.	AC	2.00
					ENM23 Significantly reduce nitrogen losses by <b>applying a urease inhibitor</b>	AC	3.00
					ENM24 <b>Use grid soil sampling, yield maps for P and K, and precision application equipment</b> to increase fertilizer efficiency and utilization	AC	3.00
					ENM60 Optimize nutrient use based on crop needs through <b>annual manure testing (if applicable), and bi-annual soil testing and/or annual plant tissue testing</b>	AC	4.00
					ENM61 <b>Use or manage set-backs</b> (manure application only), <b>filter strips and/or riparian buffers</b> to reduce nutrient and sediment transfer into water course.	AC	5.00

Pest Management Enhancements								
					EPM03 <b>Products are specifically selected, utilized, and applied to reduce pesticide runoff and leaching potential.</b> Payment on cropland or alfalfa acres only.	AC	5.00	
					EPM05 Improve pest management use by <b>spot spraying undesirable weeds, using natural parasite control procedures, or clipping pastures</b> to control weeds instead of using broadcast methods of applying pesticides.	AC	3.00	
					EPM10 Improve pesticide utilization by <b>field scouting</b> for the prevention, avoidance, monitoring, and suppression of pests. Maintain pest populations below economically damaging thresholds, minimize pest resistance, and minimize harmful effects of pest control. For cropland or alfalfa acres only	AC	5.00	
					EPM11 <b>Utilize spraying set-backs from water courses</b> to improve water quality benefits. Not applicable for chemicals that require a setback based on label. For cropland, hayland, or pasture.	AC	2.00	
					EPM17 <b>Improve water quality and beneficial insect habitat where pesticides are used</b> using hedgerows (crop,hay,pasture), field borders (cropland only), filter strips (cropland only), or riparian forest buffers (crop, pasture, hay).	AC	2.00	
					EPM40 Reducing pesticide spray overlap through guided measure technology	Acre	8.00	
Air Management Enhancements								
					EAM61 Improve air quality by controlling concentrated animal odors through the use of <b>bio filters for curtained barns</b>	YR	400.00	
					EAM61 Improve air quality by controlling concentrated animal odors through the use of <b>bio filters for enclosed barns</b>	YR	800.00	
					EAM60 Use of a <b>waste facility cover</b> for odor control	YR	400.00	
					EAM06 Install/maintain, <b>multi row windbreak or shelter belts</b> designed and installed for the purpose of dilution and dispersion of gas concentrations of odor near confined livestock production facilities. Payment based on the facility area protected within the layout of the windbreak system.	AC	50.00	
					EAM12 Use <b>low volume low drift sprayer</b> to apply pesticides in order to reduce pesticide drift	AC	2.00	
					EAM40 <b>Investigate various Greenhouse Gas (GHG)/Carbon sequestration scenarios</b> by utilizing the Carbon Management Evaluation Tool for Voluntary Reporting (COMET-VR) online web tool.	Year	500.00	

Habitat Management Enhancements							
					EHM12 <b>Cropland Quail Habitat Bundle</b> (all components not already present will be applied) Field border of native grass/forb mix, adjacent covey headquarters/edge feathering/downed tree structures (1/10th acre per 40 acres), fescue or brome eradication within border, prescribed burning or light disking once every 5 years of the contract. Field Border must be 30 feet wide of native grass/forb mix around entire perimeter of field or at least 10% of the field if less than entire field buffered (or for fields less than 40 acres). Payment applies to whole field or 40 acre block when all criteria are met.	AC	10.00
					EHM12 <b>Grazing Land Quail Habitat Bundle</b> (all components not already present will be applied) livestock exclusion, edge feathering/covey headquarters/downed tree structures (1/10th acre per 40 acres) within exclusion area, fescue/brome eradication in field border, prescribed burning or light disking once every 5 years of contract within the exclusion area. Field border must be 30 feet wide of native grass/forb mix around the entire perimeter of field or at least 10% of the field if less than the entire field buffered (or for fields less than 40 acres). Payment applies to whole field or 40 acre block when all criteria are met.	AC	10.00
					EHM01 <b>Leave cropland unharvested</b> on at least 1/4 acre (but no more than 4 acres) per 40 acres. Unharvested grain must be at least 30 feet wide and adjacent to quality woody or wildlife friendly herbaceous cover. Unharvested areas must remain undisturbed until the next planting season for that crop. Payment applies to cropland (grain) areas left unharvested.	AC	100.00
					EHM01 <b>On grassland, plant annual food plots</b> on at least 1/4 acre (but no more than 4 acres) per 40 acres. Food plots must be at least 30 feet wide. Food plots must be planted annually to a grain crop and adjacent to quality shrubby(woody) cover or wildlife friendly herbaceous cover. Plots must remain undisturbed until the next planting season for that crop. Payment applies to area annually planted in food plot. Food plots must be protected from livestock.	AC	100.00
					EHM11 <b>Time haying and livestock grazing to avoid periods when upland wildlife are nesting, fawning, etc.</b> for targeted wildlife habitat management purposes and to protect water quality. Payment applies to idled areas only.	AC	10.00
					EHM21 <b>Manage native grasslands to maintain native legumes and/or forbs and/or native grasses</b> to improve grassland health and provide food and cover for wildlife.	AC	15.00

					EHM20 Improve wildlife habitat to achieve a <b>Wildlife Enhancement Index Level of 0.6 or greater.</b>	AC	5.00
					EHM20 Improve wildlife habitat to achieve a <b>Wildlife Enhancement Index Level of 0.7 or greater.</b>	AC	10.00
					EHM20 Improve wildlife habitat to achieve a <b>Wildlife Enhancement Index Level of 0.8 or greater.</b>	AC	15.00
					EHM20 Improve wildlife habitat to achieve a <b>Wildlife Enhancement Index Level of 0.9 or greater.</b>	AC	20.00
					EHM20 Improve wildlife habitat to achieve a <b>Wildlife Enhancement Index Level of 1.0.</b>	AC	25.00

### Applicant Signature

I agree that the following information will be provided to NRCS upon request:

\* Written documentation of the activity or practice performed.

\*Copies of dated receipts for equipment or services purchased.

I understand that CSP Enhancements earnings are subject to payment caps and that my actual payments will depend on my CSP Tier level and the number of acres enrolled.

I understand that it is my responsibility to obtain all necessary permits and to comply with all ordinances and laws pertaining to the application of these activities.

Applicant(s)

Date

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